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BALTIMORE, MARCH 29, 1884.

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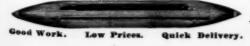


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For Cotton, Jean, and Worsted Goods, and recently improved and superior Drop-box Looms, with patent full lift and full drop, skip-box motion and parallel pick. for Ginghams and Dress Goods.

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Fly Frames, Ring Spinning Frames, Filling Winders, Spoolers, Warpers, Twisters, Reels.

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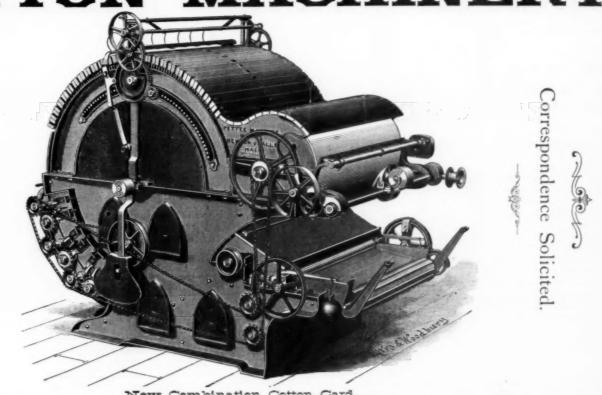
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New Combination Cards, (48 in. diameter cylinder, 18 in. doffer,) Common Top Flat and Foss & Pevey Cards, Railway
Heads, Railway Troughs, Drawing Frames; also PATENT SPEEDERS and LOOMS for goods
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Special Driving,

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Why use old style Bearings, that require oiling every day, when you can get Bearings at less cost that only require oiling once in Six Months, and thus save oil and labor enough to pay for the bearings in use. Test the matter for yourselves; a trial always secures the trade.

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Power, Light Weight, Economy in Fuel and Water, Efficiency, Simplicity and Durability.

The Traction Engines are furnished with Birdsall's Patent Driving Wheel, which is made expressly for soft or muddy roads; they are warranted to travel and take a load on roads that are too soft to be used by any other traction: are very simple; easily managed; better made and made of better material and decidedly the best finished engine in the market. A prize will be given to every farmer who tries them and does not find by expe rience that they are not excelled by any and superior to most.

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Power, Light Weight, Economy in Fuel and Water, Efficiency, Simplicity and Durability.

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The Novelty Saw Mill is the only mill in the world built on truck wheels, and is gotten up on entirely different principles from any other. The cutting is done with the under side of the saw and with the grain of the wood instead of against the grain as in all other mills, thus saving largely in power required to drive the saw; they are gotten up expressly for light power, and are warranted to run with from \(\frac{1}{2} \) less power than any mill built; a ten-horse engine gives excellent power for them, and will handle the heaviest timber to the best advantage. They can be set up ready for operation while the steam is being raised on the engine; and they will pay the owner on small jobs, owing to their portability, that will not pay on any other mill. They make excellent lumber; are easily managed, and with our Ten-Horse Tr ction or Portable Engine will cut from 3,000 to 5,000 ft. of lumber per day, according to the size of the logs and skill of the operator.

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SLASHERS with Patent SLOW MOTION for "DOFFING" without stopping MACHINE, and REGULATING ROLLER, insuring perfect uniformity of Speed and stress of yarn in passing through MACHINE. Over 800 at work in America alone.

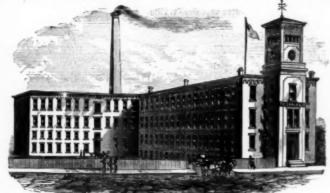


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For Silk Dyers, with Vertical Engine on the side and Cone Pulley Friction.



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Machine C.

Runs by Belt and Friction Cones. suitable for water-

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The Instrument will in all Cases be Warranted Perfect and Satisfactory.

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It is a splendid lubricator for Stationary Engines, Printing Presses, Paper Mills, Saw Mills, Cotton and Woolen Mills, Spindles, &c. It is the cheapest and best Oil for Machinery, Harness, Belts, Boots and Leather generally. Warranted a Water-Proof Leather Preservative.

It is penetrating, and renders soft and pliable the hardest leather.

Fire-Proof, Barn, Fence, Bridge and Roof Paint MIXED READY POR USE.

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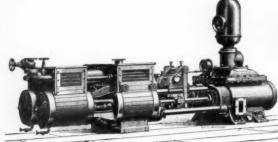
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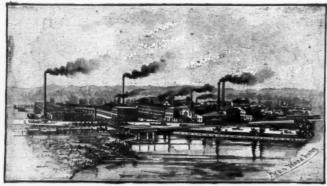
No explosions, no fires nor cinders, no gauges, no pumps, no engineer or other attendant while running. Recommended by insurance companies. UNSURPASSED IN EVERY RESPECT for hoisting in warehouses, printing, ventilating, running small shops, &c. Two, four and seven-horse power and upwards,

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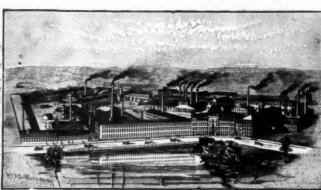
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Sole Manufacturers of Phosphor-Bronze in the United States.



ESTABLISHED 1845.

BALTIMORE Manufacturers' Record.

PUBLISHED EVERY SATURDAY.

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R. H. EDMONDS, Editor. WM. H. EDMONDS, Associate Editor.

NEW ENGLAND BRANCH OFFICE: Room 1, No 19 Pearl Street, BOSTON, MASS. JESSE W. BIGSBY, Resident Partner

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BALTIMORE, MARCH 29, 1884.

CORRESPONDENCE relating to the manufacturing, mining, lumbering and all other material interests of the Southern States is solicited. We invite those interested in the development of the South to make free use of our columns. Reaching so many capitalists in all parts of the United States seeking profitable investment in the South, the MANUFACTURERS' RECORD offers an excellent chance for the people in that section to place the advantages of each locality before those likely to be interested. We will take great pleasure at all times in telling what has already been accomplished in the South, and showing up the opportunities of doing still more,so if you desire to attract immigration or capital, or if you know of an opening for profitable investment in manufacturing, mining or kindred pursuits, write us an account of it. It will be published free of cost.

MR. F. W. GRIFFIN, the secretary of the Manufacturers & Mechanics' Institute, of Boston, and others, have organized the International Land and Colonization Society, with a capital of \$125 000, for the purpose of buying large bodies of land in the South, to be divided up and sold in small parcels to immigrants. The company will endeavor to attract a large immigration from Europe, as well as from the Northern States. The organization of this company is simply another evidence of the interest that is centering in the South, and of the disposition of capitalists to invest in that section.

THE Mobile Register has donned a new spring dress, giving evidence of its prosperity. The Reg.ster is one of the best of Southern papers, published in one of the most attractive of Southern towns.

tective Tariff.

That the sentiment in favor of a protective tariff is very rapidly spreading in the South is so evident that the most pronounced free-trader cannot shut his eyes to the fact. The traditions and teachings of the past among Southern people were mainly for free trade, and, drifting along with that current, the writer of this, in former years, regarded a belief in that doctrine as essential to all who were interested in the progress of the Southern States. Our convictions upon this important question, however, were entirely changed long before there were any signs of the revolution that is now seen in the sentiment of the South upon the tariff question, and it affords us much pleasure to know that the MANUFAC-TURERS' RECORD has been one of the leaders in educating the Southern people to the great importance to them of a protective tariff.

There are none so foolish as to deny that the building up of the vast manufacturing interests of the North and West is due mainly to a protective tariff, and under that tariff those sections have prospered and grown wealthy more rapidly, probably, than the world had ever seen up to a year or so ago. With the growth of manufactures there has been a steady development of the railroad and the agricultural interests. The increase in population, wealth, and all that goes to build up a civilized nation, in the North and West, has been one of the most stupendous wonders the world has ever witnessed. Whatever may be our political opinions or party affiliations, we are bound to admit that this marvellous development has demonstrated beyond the shadow of a doubt that a protective tariff has been a blessing to the North and West. Now, if this tariff has resulted in such great good to those sections, and the South is about to share in its great benefits, why should there be any in this section who are willing to sacrifice the future of their country. its growth and prosperity, simply that they may adhere to their idols of the past.

Already the South has started on a career of prosperity that bids fair to make her the richest country that the sun ever looked down upon, and even Mr. Jay Gould admits that the South is to-day making "more rapid progress than New England ever did in her palmiest days." From one end of the South to the other there is throbbing a new life. Old things are passing away, and day by day we see the South growing richer, and stronger, and more populous. Millions and tens of millions of dollars are going into Southern industrial enterprises every month, and the outlook now is brilliant almost beyond human conception. Every new factory started and every mile of railroad built are adding not only to the aggregate wealth of the South, but

The South's Interest in a Pro- they are enhancing the value of all adjacent property; they are building up a home market for the products of the farm and opening up dozens of new ways by which the farmers of the South can free themselves from the chains of their great curse-the all-cotton system.

With the growth of these new industries, diversified agriculture in its broadest sense opens up to the Southern farmer many avenues of profit, while it affords remunerative employment to thousands of idle hands-idle because they could find nothing to do. It is hardly possible to conceive of any country making more rapid substantial progress than we now see in the South. All this is being done under a protective tariff. Would it not be wise to let well enough alone, and for the people of the South to refuse longer to be led by those who seek to break down this system, the breaking down of which would inevitably check the advance now being made by the Southern States.

The Proper Credit.

In all things it is well to give credit where credit is due. Some weeks ago the writer had occasion to insert an advertisement in several newspapers of large circulation, and in reply received quite a number of letters, and out of the entire number, there were, we believe, less than half a dozen in which any reference was made to the paper in which the advertisement was seen. As so few of the writers mentioned in their letters where the advertisement had been noticed, we could not, of course, be certain as to how much good each paper had done us.

Advertisers are always anxious to know just how many letters of inquiry each paper in which their card is p'aced brings them, so that they can confine their advertising in the future to such papers as pay them; while it is particularly important for newspapers that they should receive full credit for all the good that they do for the business men who patronize them. Hence it is a matter of considerable moment that when a reader sees an advertisement in a newspaper and desires to purchase any of the goods advertised, or if he only wishes to obtain price-lists or catalogues, that he mention in his letter the name of the paper in which the advertisement was seen By doing this a favor will be conferred upon the advertisers, as well as upon the newspaper.

THE Bitter-Sweet, of Kissimmee City, Fla., reports a rapid growth of that attractive city, with an unusual large number of houses now under construction. The prospects for Kissimmee's future, based on its very superior natural advantages and transportation facilities, are said to be remarkably good.

Mr. Gould's Views about the South.

Mr. Jay Gould is undoubtedly well able to judge of the South's industrial future, and hence his views upon that subject must carry considerable weight. In a late interview he said that the Southern States have made such progress since the war as was never made by New England, even in her palmiest days. While the politicians have been berating that section her people continued at work, until now the business world is awaking to the fact that the progress of the South is enchaining the attention of capitalists everywhere. The mountain section south of the Blue Ridge, from North Carolina across to the Mississippi, is bound to become the greatest manufacturing country in the world, and Atlanta and Birmingham will be cities with population of half a million each. The outlook for cotton manufacture, freighted, as it is, with wealth, will be eclipsed by the iron interests, which are truly marvellous. The two brightest public men in the South, who appreciate the full possibilities of the future, are Senator Brown, of Georgia, and Senator lones, of Florida, Southern lands, both for agricultural and timber purposes, he considers one of the safest investments possible. Within five years Florida will supply the fruit market with tropical products. Pensacola, he says, will obtain rank as a seaport next after New Orleans.

THE Atlanta Constitution is not satisfied with our advice to Southern people that good management is essential to success in manufactures at the South, and wants to know why Northern manufacturers fail, and if their failure is due to a lack of experience. The Constitution has entirely mistaken our meaning. We stated that a large proportion of the failures that do occur among Southern manufacturers,-although we are glad to say the percentage of failures at the South is less than in the North,-are caused by bad management, or, in other words, there would be fewer failures even than there are if every factory had good, experienced managers. We only advised Southern people (and our advice was to Southerners only, simply because the MANUFACTURERS' RECORD is a Southern paper, working for the best interests of the South,) not to put their money into any new enterprise unless men of ability and experience were going to manage it. The ediwere going to manage it. The tor of the MANUFACTURERS' cord is a Southerner, and possibly may know as much about the industrial interests of the South as the able editor of our Atlanta contemporary.

Our readers will confer a favor upon our advertisers and upon us, as well as benefit themselves, if, whenever they write to anyone advertising in this paper, if it is only for a catalogue, they mention that "your advertisement was seen in the Baltimonn MANUFACTUBERS' RECORD." A careful compliance with this request will be much appreciated.

CONSTRUCTION DEPARTMENT.

We publish, every week, a list of every new factory, of whatever kind, projected anywhere in the South; every railroad undertaken, and every mining company organized. This information is always fresh, and, by enabling manufacturers to correspond with the projectors of such enterprises before their supplies of machinery have been purchased, is of great value. Manufacturers will find it to their interest to read this department carefully each week.

Machinery in saw mill of Ligon & Griffin, Seney, Ga., badly damaged by explosion.

HERRING & RAND, Goldsboro, N. C., are building a new mill in Jones county, N. C., for Capt. E. R. Page.

Sweetwater, Texas, expects to establish \$20,000 water-works.

REPORTED that the Juniata Quarrying and Manufacturing Co., Concord, Tenn., will erect building and machinery for sawing and dressing marble.

T. W. Kemplin, Grassy, Morgan county, Ky., is erecting a distillery

The Houston, East and West Texas Railway, Houston, Texas, it is reported, will at once erect large machine shops, round-house, &c.

Incorporated—The Kentucky Mining, Manufacturing & Construction Co.

EDWIN McDowell and others, Spartanburg, S. C., expect to start foundry. Will manufacture stoves, turbine wheels, &c.

Col. Tom Pierce, of the Galveston, Harrisburg & San Antonio Railroad, speaking of the new railroad shops to be erected by his company at Houston, Texas, as reported last week, says they will be about 1,800 by 1,200 feet, and will cost about \$500,000.

Mr. Max Kosse has received contract for the \$39,000 building for the Cotton Exchange, Houston, Texas.

THE M. T. Jones Lumber Co., Houston, Texas, will enlarge their mills.

GOVERNOR CAMERON, of Virginia, has vetoed the bill incorporating the Richmond Dock and Dry Dock Co.

THE Merchants' Exchange, San Antonio, Texas, expect to erect a \$50,000 building.

The Nashville Cotton Mills, of Nashville, Tenn., organized in 1881, with a capital of \$100,000, propose to more than double their present capacity; will add 100 looms and other necessary machinery.

Mr. Jno. L. Allen, Fayetteville, N. C., expects to enlarge his sash and furniture factory.

THE London and Buckingham Construction and Mining Co. has been incorporated in Virginia.

GEO. W. Andrews and John B. Scarborough will start canning factory at Mill Green, Md.

ARTHUR & BURTON, White Hall, Md., will establish carriage factory.

G. A. Thompson will put up saw mill at Thomasville, N. C.

THOMPSON & KINDLY, Thomasville, N. C., will enlarge flour mill, put in 60-horse power engine, &c.

A saw mill is to be built at Micanopy, Fla.

PRESTON TAYLOR, Mt. Sterling, Ky., is buying machinery for steam laundry. R. W. Smith will also establish steam laundry in same place. GEO. E. MACY, Orlando, Fla., has put up a grist mill.

The Cypress Lumber Co., Apalachicola, Fla., are building a new saw mill.

McBride & Co., Palmetto, Ga., propose to put up cotton-seed oil mill at Newnan, Ga.

A STOCK company is forming to build new street railroad in Chattanooga. Mr. C. P. Robertson can give particulars.

PARKER & SMITH will start a brick yard at Augusta, Ga.

Proposals are invited by president R. M. Mitchell, of Augusta, Ga., for grading 20 miles of railroad.

Prospects are more encouraging for a cotton factory in Lynchburg. As previously reported, Northern capitalists offer to subscribe one-half of capital. Guggenheimer & Co., Lynchburg, can give particulars.

Foard & Partee, Martinsville, Va., will increase supply of brick-making machinery.

NORTHERN capitalists are testing the gold mine near Carrollton, Ga., owned by Zadoc Bonner, with a view of purchasing at \$75,000.

FOUNDRY and machine shop will probably be established in Orlando, Fla.

NUTTY Bros., Bristol, Tenn., are enlarging their wool mill, adding new machinery, &c.

THE new hub and spoke factory, Scottsboro, Ala., is receiving its machinery.

Machine shops of the Jacksonville, Tampa & Key West Railroad will be located at Palatka, Fla.

A \$30,000 Masonic Hall is to be erected at Aberdeen, Miss.

Organized at Aberdeen, Miss—Aberdeen Electric Light Co Dr. J. W. Eckford, president; J. E. Ford, vice president; and C. C. Buckner, secretary.

The Shuttle Factory, Winston, N. C., is adding general wood-working machinery

G. L. MILLER, Winston, N. C., is enlarging his planing mill.

JOSEPH H. DURKEE and others, of Jacksonville, Fla., have incorporated the Normal and Industrial Institute for instruction in mechanics, &c.

Tyson & Jones, carriage builders, Carthage, N. C, will erect a new shop.

The Centenary College Building, to cost \$100,000, will be erected at Lampasas, Texas.

Chartered—Dallas Belt Railroad Co., Dallas, Texas; capital, \$100,000.

J. T. JONES has received contract for water-works for Victoria, Texas, at \$38,-200.

A Shuttle Block Factory is being erected in Matthews, N. C.

J. L. GRIFFIN is erecting planing and moulding mill at Quitman, Ga.

Canning & Gill, Selma, Ala., expect to establish wagon factory. Will probably organize as a company; capital, \$40,000.

The foundry previously reported as rumored for Selma, Ala., will be started by Dr. J. H. Robbins. Will manufacture all kinds of agricultural implements, in addition to other work. Contract given for the building; capital, \$10,000.

GEO. PEACOCK, Selma, Ala., is adding machine shop to his foundry.

First Presbyterian Church, Richmond, Va., will erect new church building. Proposals invited to April 15 by W. E. Cutshaw.

WASON CAR WORKS, Chattanooga, Tenn., are increasing supply of machinery. The bagging factory previously mentioned as probable in Selma, Ala., is being worked up by S. B. Shivers and others.

 Λ street railroad company has been chartered in Montgomery, Λ la.

THE Birmingham, Ala., Ice Factory will double its capacity.

The new foundry and machine shops of Evan Jones, at Calera, Ala., previously mentioned, will be ready for work in a few weeks.

N. W. Howson, superintendent of the Mount Savage Locomotive Works, will build extensive locomotive works in Anniston, Ala.

Parsons & Co., Anniston, Aia., have begun erecting planing mill and sash factory at Talladega, Ala.

The Bowie Marble Quarry, near Talladega, is to be developed.

 Λ SILK factory is to be started in Del Rio, Texas.

The Lone Star Brewing Association, San Antonio, Texas, is pushing work on the new brewery.

Moore & Brady, Newbern, N. C., are enlarging their canning factory.

P. C. Wilson, Chattanooga, will erect a \$50,000 house

Work on buildings for the Chattanooga Iron Fence and Screw Co., previously noted, will be commenced at once,—Mr. W. L. Slocum, vice president, having charge of the matter.

Col. Matson, superintendent of East Tennessee & Western North Carolina Railroad, has bought Crumley & Miller's foundry at Johnson City, Tenn, and will convert it into stove foundry and hollowware factory.

The Roberdel Cotton Mill at Rockingham, N. C., is receiving its machinery. It will start with 3,000 spindles and 100 looms. The full capacity of the building is 6,000 spindles and 250 looms.

McDuffee & Co., of Anniston, Ala., will start brick yard, using best machinery.

The Cincinnati, Green River & Nashville Railroad will probably be built from Nashville to connect with roads running to Louisville and to the East.

A costly Catholic cathedral will be erected in Nashville, Tenn.

The City Mills Company, of Knoxville, Tenn., will soon commence work on their \$30,000 flour mill.

BEARDEN & McCullough are putting up new saw mill near Tullahoma, Tenn.

A. D. and O. H. SNYDER, of Bryan, Ohio, expect to start boot and shoe factory at Tullahoma, Tenn.

The rebuilding of George Stacy's chuck factory at Manchester, Va., lately burned, has commenced.

Granyille Valentine, Richmond, Va., is building a barrel factory at Manchester, Va

The new Butter Dish Factory Company, Chattanooga, are pushing work on their building.

Z. E. RANNEY, W. L. Boyd and others, of McKinney, Texas, are stockholders in the cotton-seed oil mill to be erected at that place, previously reported.

INCORPORATED—Rosendale Street Railway Co. of Fort Worth, Texas; capital \$50,000.

A NASHVILLE company is building large handle and spoke factory near Cave Spring, Tenn.

BLACKBURN & OZIAS have commenced building a new sash and blind factory at Cleveland, Tenn. PARHAM'S Mattress Factory, Chattanooga, Tenn., will soon occupy new building, enlarge operations, &c.

D. R. Davis, lately of Morristown, Ohio, will engage largely in brick making at Chattanooga, Tenn.

THE new foundry and machine shops for the Wilder Machine Works, previously reported, are being pushed forward.

St. Anthony's German Catholic Church, Louisville, Ky., will erect a new \$51,000 church building.

B. F. Avery & Sons, Louisville, Ky., will put up an additional plow factory to cost \$15,000.

THE Lock and Hardware Manufacturing Co. has been organized at Lexington, Ky.

THE East Tennessee, Virginia & Georgia Railroad will commence work at once on a large passenger dopot at Atlanta, Ga.

Incorporated—Little Rock Street Railway Co.; capital \$100,000.

Messrs. McKay and Figuers, Columbia, Tenn., are working up a pressed brick factory.

Chartered—Southern Machine Co., of Bedford county, Tenn.

THE Mobile Cotton Exchange are preparing to erect a new building.

The saw mill which Mr. — Burton is building at Baton Rouge will have capacity of 40,000 feet per day.

P. L. Terry & Co., Roanoke, Va., have awarded contract for a \$12,000 warehouse.

KNOXVILLE Ice Factory, Knoxville, Tenn., will spend \$20,000 for new building and machinery.

C. M. McGhee, E. J. Sanford, and others, of Knoxville, Tenn., are interested in the proposed \$100,000 woolen mill previously reported.

Among the leading buildings to be erected in Knoxville, Tenn., this year are a \$100,000 car and machine shops, by the East Tennessee, Virginia & Georgia Railroad; a \$20,000 passenger depot by same; State Insane Asylum, \$80,000; court-house, \$75,000; Catholic church, \$40,000; Baptist church, \$40,000; library building, by C. M. McGhee, \$30,000; warehouse by Chamberlain & Albers, \$30,000; warehouse by F. McNulty, \$30,000; warehouse by McNulty, \$30,000; warehouse by McCallum Bros, \$20,000; besides several mills previously mentioned.

A GRAIN elevator will be built in Knox-ville, Tenn.

President Raoul, of the Central Railroad, says his company will build a compress at Eufaula, Ala.

The new Cotton-Seed Oil Mill Company of Fort Worth, Texa-, lately reported, have added \$25,000 to capital stock.

MORRILL Memorial Hall, to cost \$10,000, will be erected in Kyle, Texas,

Darlington & Meyers, of Palestine, Texas, will build the \$16,000 court-house at Groveton, Texas.

L. E. Gore, Hot Springs, Ark., will buy machinery to work a gold mine.

An axe-handle factory is being erected in Dickson Co., Tenn., by Western men.

G. W. Parker, Newberne, Tenn., is putting new machinery into his flour mill.

LOCKWOOD, GREENE & CO. MILL ENGINEERS

Office, 65 Westminster St., Providence, R. I.

Carefully prepared plans, specifications and estimates furnished for the construction, equipment and organization of new mills and the revision and improvement of old.

THE Baptist State University, capital \$300,000, has been incorporated in Texas, and will erect buildings in Georgetown, Texas.

INCORPORATED in New Orleans-The Louisiana Electric Light and Power Co.; capital \$300,000. The directors are: Burris D. Wood, M. J. Hart, Moses Schwartz, Charles S. Rice, George A. Chiapella, John Fitzpatrick, A Jardet, Simon E. Marx and James D. Edwards.

THE Marshall Foundry Company has been organized in Hickory, N. C., for making castings, manufacturing machine-

THE Carolina Central Railroad has com menced work on a new round-house at Lincolnton, N. C.

ARLINGTON Guarantee Gold Mine, located four miles from Charlotte, N. C., has issued \$20,000 in bonds, to buy machinery,

J. T. JONES, of Palestine, Texas, received contract for water-works at Victoria, Texas,

The Southern Pacific Railroad Co. has been organized, with a capital of \$1,000,-000, by H. B. Plant, Henry B. Sanford and

BINGHAM, HOPKINS & Co., of Baltimore, have paid \$35,000 for site for new straw goods factory, which they will shortly erect.

N. H BURNS and Max Black, of Albany. Tex., will build water-works in that town.

CONTRACT has been signed for building gas works in Corsicana, Tex.

New water-works will be established in Waco, Tex. The Mayor is now investigating cost, best system, &c.

INCORPORATED in West Virginia—the path Atlantic Power Co. of Jackson-South ville, Fla., for manufacturing and dealing in machinery, &c.

W. S. PRIMROSE, Raleigh, N. C., invites bids to April for the exposition building, to be about 300 by 300 feet.

THE American Centracting Co., of New York, has received contract for grading, bridges, stations, work-shops, &c., for the New York, Norfolk & Charleston Railroad, for \$3,101.171. R ad is to run from Norfolk to Charleston—330 miles.

Incorporated in Baltimore, by Wyat Owen, R. W. Applegarth, and others,—The Avon Slate Co.; capital, \$50,000.

Colonel — Breckenridge, Eagle Pass, Tex., will buy about \$10,009 worth of machinery for coal mine.

MACHINE shops of Western North Carolina Railroad, Salisbury, N. C., are to be enlarged.

DISPATCH from Calera, Ala., just as we go to press, says: "Transactions were consummated t day involving an investment of \$1.500,000 here by a Michigan company. and agricultural large iron furnace and implement manufactory lished." Particulars later.

BURNED.

GIN and mill of J. C. Holly, Red Oak, Barnwell county, S. C.

Works of Tennessee Handle Factory, at Chattanooga, Tenn.

"Dumplin Mills," at Mount's Cross Roads, Jefferson county, Tenn.; owned by Kindrick Carmichael.

FLOUR mill of George Vernon, at Comanche, Texas

FLOUR mill of Allen & Mullins, at Thrifty, near Brownwood, Texas; loss, \$20,000.

Works and machinery of the Flamingo Guano Co., at Baltimore; loss about \$30,-

P. S. Chappell & Son, fertilizer and chemical works and machinery, at Baltimore; loss about \$180,000.

A LARGE fire in Jackson, Tenn., destroy about \$80,000 to \$100,000 worth of property.

Saw mill of J. F. Simpson, near Ocala, Saw mill of H. A. Farmer, Starke, Fla

PHELPS Bros.' flour mill, Charlotte, N. C.; loss \$6,000.

The Pride of the South. The Big Cotton Will at Columbus, Ga.

SOUTHERN OFFICE BALTIMORE MANUFACTURERS' RECORD. ATLANTA, GA., March 21, 1884.

I wish to tell your readers more about the Eagle & Phoenix Mills, of Columbus. It is the very leader of our Southern manufacturing institutions.

Mr. Wm. H. Young has issued a circular to the stockholders, submitting the proposition to build a fourth mill at a cost of \$700,000 of dollars, out of the surplus money of the establishment Without any addi tional cost of water-power or mill adminis tration, the benefit of an additional mill will be enjoyed without any further asse ment of stock, and with only the running expense of material and the common labor to manufacture.

As I have told you, the main spirit of this great establishment has been Col. W. H. Young, who has been living in Columbus and that section since 1826, and who is to-day one of the smartest cotton-mill men in the South. He built the first mill of this establishment 35 years ago, and then constructed a second mill. These mills paid the stockholders 25%, run 11,000 spindles and 250 looms. The whole concern was burned down during the war.

In 1868 No. 1 was rebuilt, and began running in 1869. The capital stock was \$463,900. In 1870 No. 2 was built, the apital stock being put at \$1,250,000. In 1870, '71 and '72 cotton cost from 15 to 26 cents per pound. Goods paid well, the profit averaging on the goods 26 97-100%, and on the capital 14 67-100%. The panic ran from 1873 to 1876, depressing matters. No. 3 was proposed to be built. The additions were all made on the principle that production must be enlarged and property utilized to earn more money. The third mill brought the cost value of production up to the capital.

The two mills ran from 1873 to 1879-six years. The profit on production fell from 26 97% to 16.53%, and on capital from 14.67% to 10.42%. The third mill began to run in 1879 and was built from the carnings.

The three mills, from 1879 to 1884, gave a net profit on production of 14.96%, but on capital of 15.27%. The net annual earnings for 5 years were \$250,774. The third mill gave an actual yearly gain of \$60,644, or \$303,220 in the five years.

The general result was 1.57% less profit on production, but 4.85% more profit on capital, with the additional mill.

The three mills gave altogether in five years as net earnings \$1,253 869.

With the three mills 46,000 spindles are run. It is proposed to add a \$700,000 mill, with 25,000 more spindles, which Mr. Young says would add over 50% to the value now produced. This will increase the profit on the capital stock to 221% relatively.

It is proposed to put No. 4 mill on the Alabama side of the river, on a site owned by the company, and to utilize a stone dam built and paid for.

No. 1 mill has 13,000 spindles and 16 feet fall of

water. No. 2 mill has 12,000 spindles and 15 feet fail of

No. 3 mill has 21,000 spindles and 20 feet fall of 4 mill will have 25,000 spindles and 22 feet 5

The new mill will consume 15,000 pounds

daily, making goods of \$800,000 value. The total estimated cost of mill No. 4 is \$293,449, and of machinery \$396,450, mak-

ing whole expense \$689,899 For the years from 1-70 to 1884—14 years—the net profits have been from the 3 mills.

The dividends.

rplus profit.....terest paid out..... provements and machinery eserve fund

These mills make 100 kinds of cotton and woolen goods. The capital is all Southern, and the sale mostly in the South. pany.

The mills have 2 blocks of houses in the city and 84 houses for operatives across the river.

The mill has an immense savings bank. It was started this way: a woman's dress caught in the machinery. The superintendent cut her dress apart to get her loose and cut a \$50 bill in two hidden in its folds. She had saved this. Mr. Young then started the bank to take care of the money of the mill hands. One operative has \$9,000 in the bank; one colored employee has \$1,000 deposited. Depositors are paid 6 per cent. per annum interest. The management ometimes gives Christmas dinners to the operatives, ordering once over 700 turkeys.

This is a magnificent establishment, a model of its kind, and demonstrates what can be done with cotton and woolen manufacturing in the South. I. W. AVERY.

Railroad Building in the South in 1883.

Some Interesting Figures.

SOUTHERN DEPARTMENT BALTIMORE MANUFACTURERS' RECORD. ATLANTA, GA., March 22, 1884.

The progress of railroad building in the South in 1883, as compared with other sec tions, presents some interesting figures. RAILROAD FE

	Miles.	Miles,	Inc.,	Inc.,
States.	1 82.	1883.	miles.	per ct.
New England	6,155	6,245	90	.014
Middle	7,928	18,775	853	436
Southern	17,693	19,223	1.580	9
Western	\$5,962	70,132	4,160	6
Pacific		6,367	770	12

These figures show that in the year 1883 the Southern States made a larger per cent. of increase in railroad construction than any other section except the Pacific States, even exceeding the imperial and mighty West. The significance of these figures cannot be overlooked. They testify to the greater proportionate progress in this crucial test of development by railways in the South

Looking into the details of this Southern growth in 1883, we find as follows:

Total track,	Inc.,	Total track,	Inc.,
1889.	1883.	1888.	per ct.
Alabama1,962,19	136.5	2,098,60	7
Florida1.054.69	194	1.948.69	19
Georgia2,999,50	78	3,077.59	256
Kentucky2,889.57	117.1	8,006,67	4
Louisiana1,386.98	256.9	1,643.88	19
Mississippi 512.28	320.2	832.48	61
N. Carolina. 1,680.42	46.95	1,727.37	23/
S. Carolina1,635.38	43.5	1,677.88	2%
Tennessee 2,389.73	50.5	2,440,23	9
Texas6,158,82	77	6,235.82	136
Virginia3,045.15	98	3,046,13	3
W. Virginia. 309,79	112,5	422 29	36

From these figures it will be seen that Mississippi has led the South in her railway expansion in 1883, showing 61% increase West Virginia came next, showing 36% rowth; Florida and Louisiana next, 19%; Alabama next, 7%.

It will not be uninteresting to notice the mital invested in 1882 in the South

cultures yes a control	A THE MOONE	140 6110 0	O CE CES.
Alabama			
Florida			27,191,194
Georgia	*******	********	72,825,130
Kentucky		*******	150,744,624
Louisiana		*******	70,550,578
Mississippi		********	17,670,929
North Carolina	********	********	44,871,170
South Carolina	*******		41,998,949
Tennessee	********	********	126,323,124
Texas			223,701,446
Virginia		********	174,975,172
West Virginia		********	18,182,116

We had an aggregate in 1882 of \$1,037, 525 000,000 of capital invested in railways in the South. Texas led; Virginia, second; Kentucky, third; Tennessee, fourth; Georgia, fifth; Louisiana, sixth; Alabama, seventh; North Carolina, eighth; South Carolina, ninth.

I. W. Avery.

THE Nashville Cotton Mills, of Nash ville, Tenn., have met with such decided success under the able management of T. B. Dallas, the treasurer, since first organized in 1881, that they have decided to more than double their capacity. This company was organized in 1881, with a capital of \$100,000,-the designs for the original mill, as well as for the proposed extension, having been prepared by the Lowell Machine Shop, Lowell, Mass., of which Mr. E. H. Owen, Jr., is the able engineer. The contract for the additional machinery has been placed with this company.

MANUFACTURING.

Subscribe to the Baltimore Manufacturers Record. Price \$3 per year.

BALTIMORE.

MESSRS. JOHN G. HETZELL & SON, metallic roofing and spouting manufacturers, control the Hays Patent Ventilating Skylight, which is guaranteed to remain snow and water proof. This skylight has been put in many of the most prominent buildings in Baltimore, such as the Johns Hopkins University, Mr. John W. Garrett's residence, &c. Messrs. Hetzell & Son have some large jobs on hand for their cornice work, and report business as active. Their increasing trade demands more ample accommodations, and they will shortly commence work on a five-story pressed brick warehouse, to be occupied as soon as finished.

WM. R. EMERSON, agent of the E. M. Birdsall Co., and also general machinery agent, reports business brisk, with a large number of orders being received for shipment in April. Among other sales during the past week were one of a Birdsall Saw Mill and a 25-horse power Porter Engine. His illustrated catalogue will be sent free upon application.

MESSRS. JANNEY & CONGDON, 8 N. Charles street, successors to the Goodyear Rubber Co., carry a full stock of rubber goods of all kinds, including rubber clothing, sheeting, boots and shoes, fire buckets, matting, combs and brushes, bath tubs, packing and hose, belting, lace leather, picker leather, &c. Their supply of hose for hydrant, engine, suction, street washing, &c., is very liberal. Catalogues and price-lists will be furnished upon applica-

MESSES. W. J. CLARK & BRO., hydrant manufacturers and pattern and makers, find the demand for their hydrants increasing so rapidly that they expect to enlarge their facilities by taking additional room for this business.

BATEMAN, RICHARDSON & Co. have lately taken a large building on St. Paul street, and fitted it up with ample machinery for manufacturing straw goods.

IN GENERAL.

THE Halifax Sugar Refinery, Halifax, N. S., have been setting a tubular boiler with Jarvis Patent Furnace, and they will use for fuel culm or slack coal.

Welch & Lawson, 203 and 205 Chestnut street, New York, lately shipped one of their "Lawson Gas Engines" to the Great Atlantic and Pacific Tea Co. of Richmond. This makes the fourteenth engine pur-chased of Messrs. Welch & Lawson for the various stores owned by this tea com-pany, and we understand the one hundred pany, and we understand the one and thirty-one stores now under the super-and thirty-one stores now under the supervision of that company are each plied with Lawson's Gas Engine.

THE Jarvis Engineering Co., of Boston, have issued a circular, in which they say:
"We beg to inform you that we shall remove on March 18th to our new store, remove on March 18th to our new store, No. 61 Oliver street, where we shall be pleased to see our friends and customers. We propose to represent only the best specialties in the line of steam supplies, and shall be prepared to furnish and put up at short notice, complete steam plants. specialties in the line of steam supplies, and shall be prepared to furnish and put up at short notice, complete steam plants, having the agency of the Jarvis Patent Furnace, Armington & Sims Engine, Schutte & Goehring's Jet Apparatus (consisting of the Korting Injectors, induction condensers, air compressors and exhausters, siphon pumps, etc., Sheffield grate bars, National Feed Water Heaters, steam pumps, etc., we shall be enabled to erect complete outfits of motive power at a low price. Our mason work will be under charge of Mr. H. W. Leach, and our engine business will be managed by Mr. L. B. Wright. We do not propose to confine ourselves to local business, but shall be prepared to erect steam plants at any point of the United States, Mexico, West Indies, or Sandwich Islands."

THE Fishing Creek Cotton Factory Co., C., have just added 2,000 spindles to their

Ice-Making Machines and Refrigerating Machinery for Oil Refineries, Breweries, Cold Storage Warehouses, &c., &c.

We call attention to the card of the Pictet Artificial Ice Co., limited, on page 189. These machines, of which there are already over 250 in use, are rapidly gaining favor among all who require refrigeration in their

The essential difference between the Pictet machines and all others is in the gas used for the absorption of heat. All other machines, of which there are at present some 28 different types, use ammonia as a refrigerating agent.

The objections to the use of ammonia are mainly the enormous pressure necessary to condense the gas, which ranges from 200 to 300 pounds per square inch; the necessity to lubricate the pump, which fouls the interior of the machine to such an extent in a short time as to require frequent stoppage to clean out; this operation involves the dismantling of the machine, and sometimes becomes necessary in the hottest season of the year; the great power necessary to compress the gas, consequent upon its resistance to liquifaction; great difficulty in keeping joints tight and preventing leakage of the gas, which, being expensive, makes a heavy item of the running expenses; the constant care and attention

breweries, pork-packing houses, cold storage warehouses, and in other industries requiring a cool, dry atmosphere.

When applied to refrigeration the cold liquid is pumped through coils built in the rooms to be cooled, and the liquid, in passing through the coils, absorbs the heat from the rooms and is returned to the machine to be rechilled, and is thus continu ous in its motion.

Further information, if desired, together with plan, specifications or pamphlets, can be furnished to applicants at the office of the company, 142 Greenwich street, New York, where there is also in operation at the desire of the visitor a machine which demonstrates practically its well-established claims to superiority over all other refrigerating machines.

Albany Steam Trap Co.

The Albany Steam Trap Co., Albany, New York, are moving into new and commodious quarters, and hereafter their office and works will be at 78 and 80 Church street, where they are fitting up on an extensive scale for the manufacture of their well-known specialties, gravitating and special bucket return steam traps, and also, as a new departure, the manufacture of the Blessing patent renewable seat-globe stop and check valves. A special feature

done, as there is a permanent seat always in the valve shell the same as in the old style valve.

Radiator, angle, check and stop valves will be put on the market soon. They are also busy with the patterns for straight way, stop and check valves, and will soon introduce a combined stop and check valve, in one shell, thereby saving the cost of one valve and one set of connections. This combination can be used to advantage in any position where a stop is required in connection with a check valve. The patterns are nearly completed for a special open way radiator valve, which has an opening as free as that of a plug cock. The patterns for other valves will soon be started, including safety valves. All of these will have the advantage of the renewable seats.

The new factory of this company is such as to afford most excellent facilities, being a fine three-story brick building, with a frontage of 58 feet and depth of 68.

The Manufacturers' Record.

published in the city of Baltimore, is one of the most valuable journals seeking patronage from this section. "Devoted to upbuilding of Southern manufactures and the development of the material resources of the South," it, in good taste, holds itself aloof from all political questions, save those touching directly the in-

of the valves made by this company is that affording renewable seats, which do dustrial interests of the people.

THE PICTET ICE-MAKING MACHINE

necessary in watching the machine to prevent accidents.

The Pictet machine uses a gas, (arhydrous sulphurous oxide,) a discovery of Raoul Pictet, of Geneva, Switzerland, which is revolutionary in its character and has many advantages in the application to refrigeration, the pressure of this gas being only one-sixth that necessary in ammonia machines. Its heat-absorbing power is very great; it is a self-lubricant, requiring no lubrication of the pump; it can be used in conjunction with any metal, without having the slightest effect thereupon. The machine, in its construction, is of the simplest, and, being built, with the exception of engine and pump, entirely of copper, practically indestructible.

The cut of large machine shown on page 189 represents one of their largest machines for the production of ice, and has been in successful operation in Louisville, Ky., making 30 tons of ice in 24 hours, the ice being crystal clear and in blocks weighing about 400 pounds each. The company also has machines in operation at Brenham, Tex.; New Orleans, La.; Lake Maitland, Fla.; Maysville, Ky.; and are now erecting one at Greenville, S. C., in addition to many others throughout the South.

A large number of their machines have also been adopted for refrigeration of

not have to be screwed in or out, but are simply dropped into their places, and are held in position by the bottom of the cage, which is cast on the cap. The renewable seats and discs are cast from the best phosphor-bronze metal, which has lasting qualities double that of the best steam metal commonly used in first-class valves.

It is a fact well known to engineers and steam users generally that any improvement in steam valves, whereby they could be renewed or made tight without removing the body of the valve from the pipe, and at the same time be simple, durable and cheap, would be supplying a long-felt want, and this is now accomplished by the Albany Steam Trap Co. The renewals for each size valve consisting of the seat and disc, are all made to a standard gauge, and are guaranteed to fit. They will be kept in stock, and furnished at small cost. If at any time it is not convenient to order the renewal seats, they are simply plain rings and can be turned in an engine lathe, by any ordinary machinist, out of any metal he may have of a suitable size. This advantage will be appreciated, as it often happens that a metal, other than bronze or steam metal, is required to convey liquors, alkalies and chemicals, which destroy steam metal more rapidly than iron. There need not be any stoppage while this is being

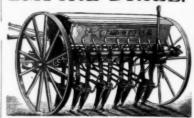
RECORD is very positive in its advocacy of a protective tariff, and this is no slight evidence of its identification with the great industries of the South.-Alabama Industrial, Talladega.

[Evidently that editor knows what he is writing about.]

THE MANUFACTURERS' RECORD, of Baltimore, in noting the progress of Southern towns, fails to review the increasing pros-perity of Talladega. This was quite an oversight, but we presume the RECORD could not know all things .- Alabama Industrial, Talladega.

[While we cannot claim to know all things, we do know of Talladega's progress; but should we attempt to review the development of all the growing towns of the South, the task would be too great for any one issue or for any dozen. In fact the number of live Southern towns seems to be much greater than the number of dead ones, and we are often puzzled to know where the greatest advance is being made. We are always glad for our friends in the South to let us know of the progress of their sections, and our columns are open to the editor of the Industrial to tell of what Talladega is doing.]

EMPIRE DRILL



With Force-Feed Fertilizer Attachment,

Any brand of commercial manure sown with curacy. NO GUESS WORK. Over 8,000 use, giving unbounded satisfaction.

Sheldon Self-Dump RAKES and Excelsior Horse-Poke.

All three Implements first-class in every respect.
Address inquiries to

EMPIRE DRILL CO., 10 Swan St., Baltimore.

ENGINES, BOILERS, &c.

For Sale Low.

Porter Horizontal Engine, 50-II. P. New 18-II. P. 44 65 65 86 25-H. P. 4-H. P. Birdsall Traction Engine, 10-H. P. 1 Birdsall Traction Engine, 10-H. P. 4

1 "Portable "10-H. P. 4

1 "Semi-Portable Engine, 8-H. P. New.

1 "Semi-Portable Engine, 8-H. P. New.

1 Wood, Tabor & Morse, 8-H. P. Second hand.

1 Curley Saw Mill, No. 2. New.

1 Novelty Saw Mill, No. 4. New.

Also Engines, both Portable and Stationary, any size, or any size or description of Borlers.

The Gardner 3-Cylinder Engines.

Snyder's Little Giant Engines and Bollers.

Low Prices guaranteed. Send for Estimates, stating size wanted and purpose to be used for, to

WM. R. EMERSON,

6 and 8 North Liberty St., BALTIMORE.



THE PERFECT Towel Holder

is selling very fast in the East, and is meeting with well-merited success. This little article should be in every place where a towel is used, as it saves towels and at the same time saves trouble. We will send a sample with prices for 15 cts., or a sample dozen for \$1.00.

Patent applied for.

Haff & Co., Box 24, HARTFORD, CONN.

THE SOMBART PATENT

Started Instantly. No Fire to Build. No Boiler to Watch. No Engineer Requires. No Coal nor Ashes. No Water Needed. NO DANGEE OF EXPLOSION!

Four Sizes, & & And horse-power, (Actual.)
When stopped all expensees. The most convenier and cheapest Motor for small power ever made. Just the thing for Printing Office. Laundries, Jeweler's, Saddlert Coffee Mille, Small Shope, etc.

Sombart Gas Engine Co., HARTFORD, CONN.
For sale by Jackson & Tyler,
16 S. Howard St., Baltimore.





Anvils, Vises, Portable Forges, Blacksmith's Tools, Hardware Specialties. Send for Price-List.

Chicago Scale Co., CHICAGO.

Exhaust Fans.

The accompanying illustrations show several styles of the exhaust and ventilator fans manufactured by the Huyett & Smith Manufacturing Co., of Detroit, Mich. It is claimed that these fans are the only kind manufactured that cannot be clogged and will successfully exhaust wet stringy elm and other shavings from hoop and head lining machinery, excelsior, cotton, and material of like n..ture.

They are specially adapted for removing dust from emery and other polishing wheels, smoke and gas from machine shops, steam from dyeing establishments, ventilating buildings, tunnels and mines, removing bark and dust from mills in tanneries,



The following patents were granted to citizens The following patents were granted to cilizens of the Southern States, bearing date Mar. 18, 1884. Reported expressly for this paper by Louis Bagger & Co., mechanical experts and solicitors of patents, Washington, D. C.

25,202. Ross, Rufus E., Kissimmee. Dredge 295,322. Albrecht, J. C., Columbus, Ga. Spark-

arrester. 295,330. Barnum, J. W., New Orleans, La. Cis-

295,144. Beaty, W. D., Mannington, W. Va. Car-

295,476. Beazly, J. O., and I. L. Morris, Baltimore, Md. Combined fruit parer and seeder. 295,340 Bommarin*, Frederick, New Orleans, La.

Bale-tie splice. 295,349. Chandler, S. P. and J. M., Lynch's Lake, S. C. Car coupling.



FIG. 1.

shavings and dust from planing mill machinery, and other wood-working establishments, elevating cotton seed and other light grains, etc.

Figure 1 shows an exhaust fan adapted for planing mills, furniture factories, &c. Figure 2 is a ventilator fan, which the manufacturers claim has many advantages over other ventilator exhausters for removing foul air, gas, steam, &c., from rooms or buildings, or for creating a current of air where needed; while figure 3 illustrates a single exhaust fan, which is made either right or left hand.

Messrs, Jackson & Tyler, Baltimore, are agents for these fans, and further information can be obtained from them



FIG. 2.

295,231. Cooke, J. W., Franklin, Tenn. Steam

traction tug-boat. 295,487. Custer, Geo., Whitney, Tex. File. 295,565. Davis, A. G., Baltimore, Md. Telephone

box. 295,156. Dueber, John C., Newport, Ky. Making

watch-case centres. 295,377. Forbes, L. D., Stranger, Tex. Governor

for cotton-gin feeders.
295.242. Genese, David, Baltimore, Md. Flexible air-tight eye guard
295.387. Harkey, G. W., Matthews, N. C. Fertil-

izing machine

295,170. Hendrick, Obadiah, Macon, Miss. Tenon extractor.
295,149. Comeaux, Jules, Plaquemine, La. Plow

attachment. 295,397. Holman, Wm. P., Howard, Ga. Black-

smith s panch. 295,401. Jackson, Adolphus, Frederick, Md. Washing machine. 296,496. Jones, Benj. F., Beauregard, Miss. Hame-

fastener. 295,965. Mc abe, J. H., Jacksonville, Fin. Car-

tridge implement. 295,702. Morgan, J. T., Selma, Ala., and H. F. Hayden, Washington, D. C. Gas fur-



FIG. 3.

ADVERTISERS wishing to reach the manufacturers of all classes, mining companies, steel, iron and hardware dealers of the entire South, cannot find a better medium than the BALTIMORE MANUFACTURERS' RECORD. We are always prepared to furnish proof of our claims as to circulation.

CINCINNATI is probably better supplied with good hotels than any other city of its size in the United States, and one of the best of them is the Palace Hotel, corner Vine and Sixth streets. Under its new management it has grown wonderfully in popularity, and it has a constantly increasing patronage. Travelers will find it about all that is to be desired in the way of a first-class hotel.

295,496. Pool, Henry, Westminster, Md. Insecti-

cide compound. 285,504. Potts, H. C., Lancaster, Ky. Feeding mechanism for roller-mills, purifiers, &c. 295,382. Reagan, Edgar U. G., La Grange, Texas.

Baling press. 205,283. Repp, E. P., New Windsor, Md. Metallic

roofing-shingle.
295,430. Resley, Horace, Cumberland, Md. Fire-

escape.
295,284. Rollins, Lafayette, Mountain Creek, Ala.
Lumber-drier.
295,437. Schraud, Franz, San Antonio, Texas.

Breech-loading fire-arm. 295,294. Scott, Roy B., D. nton, Texas. Mail-bag

fastening.
Severin, Adam, Jr., Chattanooga, Tenn. Mail-bag. 295,452. Snyder, Helen M., Pine Bluff, Ark. Shoe

Spears, Ralph R., Wooeling, W. Va. Lift-ing-jack.

295,457. Steinbach, G. P., Baltimore, Md. Shoo-

fly rocker. 295,303. Story, J. M., Spring City, Tenn. Saw-

mill.
205,462. Thurmond, W. H., Forsyth, Ga. Boiler-washing machine.
295,462. Tillery, John A., Baltimore, Md. Can-

295,210. Todd, G. N., Fort Smith, Ark. Cotton

harvester. 295,467. Webb, G. B., Bell's Ferry, N. C. Iceshaver

295,218. Zanetti, F. C., Bryan, Texas. Aqua-

NEW PUBLICATIONS.

THE CREATORS OF THE AGE OF STEEL by W. T. Jeans. New York: Charles Scribner's Sons.

In this volume are given the biographies of Bessemer, Siemens, Whiteworth, Brown, Thomas and Snelins. The work is a valuable one and should be read by everybody interested in the iron industrial trade. It will be found also of much interest to the general reader.

POLK COUNTY, Florida, its Lands and Products, by G. W. Hendry, of Fort Meade, Fla., is a pamphlet of 50 pages, designed to set forth the advantages and attractions of one of the most inviting counties in Florida. It can be had from Mr. Hendry; price, 25 cts.

The Century for April is particularly interesting and instructive. Among the leading articles are The White House, by E. V. Smalley, a profusely-illustrated description of the home of our presidents; Sidney Lanier, by Wm. Hayes Ward; How Wilkes Booth Crossed the Potomac, by George Alfred Townsend, the well-known "Gath" of newspaper fame: and Notes on the Exile of Dante, by Sarah Freeman Clarke. Fred. Mather contributes a finely illustrated article on "Progress in Fish Culture;" while S. G. W. Benjamin gives an interesting account of "Among the Magdalen Islands." Numerous other interesting articles also help to maintain the great attractions of this most popular monthly.

A FEATURE of special interest in The Current of March 22 was an extended editorial review of the manuscript of a volume soon to be published, the object of which is to absolutely demonstrate the discovery of America in the fifth century by the Chinese. The information of the preparation of such a work is thus given the public for the first time. The volume will prove one of the most splendid achievements of American scholarship, and will arouse the attention of all literary and scientific people. Its author, a gentleman of the most profound philologic, historic and literary acquirements, appears before the public in this work for the first time, though he is widely known in another capacity.

THE Alabama Industrial, Vol. 1, No. 1, has just reached us. It is a four-page paper, devoted to the industrial interests of Alabama and the South, and, if we may judge from its first issue, it will be found doing good service in this grand cause. It is published at Talladega, Ala.

THE sixth illustrated catalogue issued by E. W. Bliss, manufacturer of presses, dies and special machinery, Brooklyn, N. Y., is one of the best publications of this kind that we have lately received. It is a handsomely printed book of nearly 250 pages, giving illustrations and full particulars as to weight, size, capacity, price, &c., of a long line of tools and special machinery. Mr. Bliss is prepared with improved modern appliances for accurate machine work, and is always ready to consider proposals for manufacturing any special machinery.

In If you are not already a subscriber to the BALTIMORE MANUFACTURERS' RECORD, send us \$3 and you will receive it regularly for one year or six months for \$1.50.



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Prompt attention given to Steamship, Mill and ther Repairs. Iron and Brass Castings made to der.

ESTABLISHED 186

JOHN T. COLEMAN & SONS Steam Boiler Works. Cor. Holliday and Pleasant Sts., Baltimore.

ufacturers of all kinds of Steam and Batlers, Smoke Stacks, Water Tanks, Lard Kettles Particular attention given to repairs.

WIRE RAILING

and Ornamental Wire Works. DUFUR & CO., 36 N. Howard St., Baltimore.

THE Tribune, of Knoxville, Tenn., publishes a long list of the most important buildings to be erected in that thriving town this year, the aggregate cost being placed at over \$1,000,000. As the season advances building operations are becoming remarkably active all through the South, demonstrating the truth of our predictions, lately made, that there would be more building done in the Southern States this year than ever before. The increase over any preceding year will, we believe, be fully 100 per cent. A better evidence of the South's increasing prosperity could not be asked.

THE Norfolk Virginian has issued in the form of an almanac a handsome "Pictorial Annual for 1884," containing not only an elaborate review of the trade and commerce of Norfolk, one of the growing cities of the South, but much other information of general interest.

Col. I. W. Avery is doing a great good for Georgia and the South, with his able pen, through the columns of the BALTI-MORE MANUFACTURERS' RECORD. The colonel is paying particular attention to Southern industries, and is bringing the resources of our section to the attention of those who have means and inclination to develop them.—Democrat, Bainbridge, Ga.

HE MARKETS. *

OFFICE MANUFACTURERS' RECORD, BALTIMORE, March 26, 1884. \\
As the spring season advances and the

inclement weather that lasted for several months gives gives place to clear skies, business shows considerable improvement. In many branches of trade there is much activity, and the outlook is considered quite satisfactory. The increase in manu-factures and in building operations at the South continues to attract great attention.

We have no change to note in the manufactured iron market, and quote nominally as before, viz:

Ref. Bar Iron, 1 to 6x% to 1 V	lb.	2(a)2 1-10c
" " 1 to 4 % x 1 % to 1	86	2(42 1-10c
" % to 2, round and		
square	65	2(a.2 1-10c
Hoop Iron, 11/4 wide and upward	64	3 a 3 1-10c
Band Iron, from 1% to 6 in. wide	9.9	2%@ 2.6c
Horseshoe Iron	6.6	3.2(a) 3.3c
Norway Nail Rode	16	5 % (a) 5 % c
Black Diamond Cast Steel	5.6	11 (a) 12 C
Macainery Steel	9.0	4%(a) 5 c
Spring Steel	9.6	4 (a) 4 k c
Common Horse Nails	9.6	10 (a) 11 c
Railroad Spikes, 5 % x9-16	68	2.5@ 2.6c

The local demand for pig iron is only moderate just at present. As previously reported, stocks are steadily decreasing. e quote as before, viz:

Baitimore	Cha	rcoal	WI	neel	Iron	(all		
Baltimore	ore)				\$2	8 00@29	00
Virginia C.	B. (hare	laos	Whe	el Ir	on 2	8 0000-	_
Anthracite,	No.	1				2	1 00@23	00
84	44	9				2	0 00(221	00
96							8 00@20	
90					ite		6 00@17	00

Philadelphia Iron Market.

PHILADELPHIA, March 24, 1884, Business in iron and steel continues rather dull for the season. A fair amount of material is going into consumption, but consumers are still buying in a hand-tomouth manner, afraid to stock up, as prices in many directions have shown decided symptoms of weakness, and, besides this, they are sure that supply is ample, and that it is perfectly safe for them to order only what they want from week to week. Sales of 50,000 tons of steel rails have been heard of in Eastern mills during the past week at about \$34 at mill. Prices are weaken-

ing, and it is said that this inside price was shaded in one or two instances, though the proof of this is wanting. Certain it is that there are large requirements that will not be placed except at buyers' terms, and in a month or two makers will be anxious to book fresh business. One Southern road last week placed an order for 15,000 tons, and a road in the Northwest ordered 10,000 tons; other lots have ranged from 1,000 to 5,000 tons each. Pig iron sold as usual in small lots last week, No. 1 commanding \$21 for the best brands bought. and a good deal going at \$20 and \$20.50; No. 2 is in larger supply and very dull demand at about \$19. Gray Forge sells as usual, at \$17.50 to \$18.50, according to quality.

Bessemer iron is under inquiry at \$20 to \$20.50. Merchant iron is still dull, partly owing to the dull weather; store lots are moving slowly at about 2 cts., and refined can be had at mill at 1.85 to 1.90. Common iron was ordered in considerable lots for car work. Plate, tank and structural iron have been ordered rather more freely in small lots, and manufacturers have a good deal of spring business in sight. Sheet iron is in better request, especially for thin sheets. Nails are more active at for thin sheets. Nails are more active at \$2.50 to \$2.60. Old rails are wanted at \$21.50 to \$22, with \$22.50 to \$23 asked. Muck bars are moving slowly at \$31 to \$32 at mill, with \$1 more asked for best makes, Spiegeleisen is quoted at \$29 to \$30. The general feeling is one of hopefulness, but there are a good many discouraging features in the market, and an improvement does not seem probable at any very early does not seem probable at any very early

HARDWARE.

The market has been moderately active, with orders from the South coming in quite freely. . As the weather becomes more settled and the spring season opens, trade shows more activity.

Since our last issue the Northwestern Horse Nail Co., the New Haven Horse Nail Co., and the Lake Champlain Co. have advanced price of their goods 2c. P fb., leaving discount rate same as before. At this writing no notice has been received by us as to what action the other horse nail manufacturers will take, though the advance is probably made by all of them.

At a late meeting of the manufacturers of axes, prices were lowered, the quotations now being:

First quality, in-steel or lap steel (2)	4 to 2%
in.) bronze	\$ 7.25
First quality, in-steel or lap steel (2)	6 to 23
in.) bronze, beveled	7.75
DOUBLE BITS.	Per Doz.
Frst in-steel or lap steel, bronze	*12.00
First in-steel or lap steel, bronze, be	
Second quality 50 cts. less than ab	ove figures.

Nails are reported very scarce and firm at \$2.50@2.60. The strike at some of the mills is still keeping them closed, but efforts are being made to put in new workmen.

WM. H. HASKELL COMPANY, of Pawtucket, R. I., have issued a very excellent catalogue, giving illustrations, prices, size, and other valuable information relating to their goods. They are manufacturers of gimlet-pointed coach screws, machine bolts, with round, square and hexagon heads, plow and cultivator bolts, tap bolts, milled cap-screws and set-screws, clinch rings, cold-punched square and hexagon nuts, clearer springs, chain links, levers and stirrups, rods, bolts, and iron work for buildings. The reputation of the goods turned out by this establishment is most excellent. The new catalogue, which will be sent upon application, will be found very useful to buyers.

THE White Mountain Freezer Co., of Nashua, N. H., have issued, for free distribution to the trade, a descriptive catalogue and price-list of their patent triple-motion White Mountain Ice Cream Freezers. These freezers possess many very superior advantages, and dealers will find much satisfaction in handling them.

Cincinnati Iron Market Feport.

Specially reported by Rogers. Brown & Co., Pig Iron Commission.

CINCINNATI, March 24, 1884.

The pig iron market has been without special feature during the past week The demand has been fair and the movement of iron on delayed orders unusually heavy Prices are firm almost through the entire list. Stocks in nearly all quarters are light and diminishing, though the urgency of dealers to force trade impresses consumers with rather the contrary idea. Southern coke furnaces have probably 50,000 tons more iron sold than they have made. Of one group of Lake Superior furnaces, having not more than 300 tons on Specially reported by E. L. Harper & Co. hand, the orders actually booked amount to 10,200 tons. In all of the different districts the makers of pig metal are confident

that no lower range of prices can be reached, and yet they realize that the market rests upon the foundation of general business, and will be largely influenced by developments throughout the country in the next few months. We quote for cash f. o. b. cars Cincinnati:

	HOT-BL	TEA	FOUNDRY.			
Hanging Rock	C.C.	No.	1	\$21	50(a)28	00
24 44	**	88	2	19	50(a.2)	OD
Southern	9.6	88	1	20	00(a)22	00
Strong Coke,			1	18	50(a.19	50
54 54		8.6	2	17	50(a.18	50
0.0 40		6-6	3	17	(0a 18	00
Soft Stone Co	al.	9.9	1	19	00(a)19	50
60 60		0.0	2		50(a)18	
		POH	GE.		400	
Strong Neutra	d. No. 1	-M	11	16	50(a 17	00
Cold Short.					50(a 16	
CAR	WHEEL	AN	D MALLEAB	L.B.		
Hanging Rock	C. B			30	00@31	00
40 00	W. B.				00(a)26	
Southern Car-	Wheel	Irai		24	50(a)26	50
Lake Superior					50(a)25	
49 65					50(a.25	

CINCINNATI, March 24, 1884

There is no change in the market worthy of note. Reliable brands in all grades

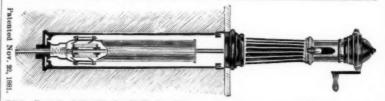
Bonney Vise and T [LIMITED.]

Bonney's Patent Vises, Machinists' Tools 🛭 Hardware Specialties, 3015 CHESTNUT ST., PHILADELPHIA.



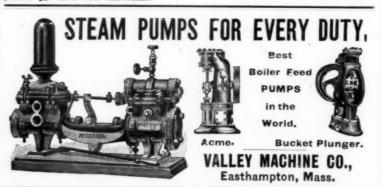
North's Patent Adjustable Tap Wrench.

To meet the wants of machinists the Wrench here illustrated was perfected, and in offering it to trade we are warranted in saying its superior has never before been in the market. For plicity, durability and strength, it has no equal. It is made of cast steel entire, with the excepof the centre piece, which is forged steel, hardened and neatly fitted to the case; and another ortant feature it cannot get out of order. The Wrench is turned, fitted and finished in ail its parts.



.J. CLARK & BRO., Manufacturers of Hydrants

No. 38 N. Holliday Street, BALTIMORE, MD.
se Hydrants are made of the best material, and are guaranteed to be entirely non-wasting and
ezing. The works of these Hydrants can be taken out and repaired without breaking the



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It much more than takes the place of the pen, as it does the work of two or three penmen, and much more neatly and legibly. The business man will appreciate this saving of valuable time. Dictate your correspondence, etc., to a Type-Writer operator and have your time and strength for other matters. (Perfect press copies obtained in same way as of pen writing.)

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Authors, journalists and others compose dire, tates composition, as the manipulation becomes purely mechanical, the mind does not lose its freshest and best thoughts, as when waiting In use throughout the world. Perfect satisfaction guaranteed

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--- MATTHEWS AUTOMATIC HIGH-SPEED ENGINE,---For Electric Lights and other purposes requiring steady, reliable power. The best and cheapest in the market. 25 H. P. for \$500. SEND FOR CIRCULAR. command quite ready sale at good prices, foundry iron especially. It is reasonable to believe that there will be a decided buoyancy in the trade upon the return of settled weather, which seems to have alienated itself from the Ohio Valley. We quote as prices current:

POUN	DRY.	Four	Mont	he.
Hanging Rock Charcoal,	No. 1	\$22	25(a)23	95
Strong Neutral Coke,	11 1	18		
50 40 50		17		
American Scotch.		19	00@19	50
GREY				-
Neutral Coke				
Cold Short		16	25@16	75
CAR WHEEL AN				
Hanging Rock, strictly o			-@27	
*** ** ** W	arm "	24	00/224	50
Lake Superior Charcoal.	all grade	s., 94	01/25	00
South, Car Wheel, strictl	v cold bla	×1. 26	10.a.26	50

Louisville Iron Market.

Specially reported by Gro. II. HULL & Co., Commission Merchants for the sale of Hot and Cold

LOUISVILLE, Ky., March 24, 1884.

The market continues quiet, and recent sales show a slight decline in price on some grades.

Some furnaces, being largely sold aheadare firm in price; others are accepting concessions, and most of the sales made are for last-named class. Quote:

Southern Coke. No. 1 Foundry \$1			
	17	50 a 18	0.0
	19	50(a,20	50
" Charc'l, " " 1	11	100 3	51
		00(a/22)	
Silver Gray, different grades 1	16	00(a)17	50
Southern Coke, No. 1 Mill, Neutral., 1	16	50(0)17	00
	5	75 @ 16	50
" " 1 " Cold Sh't -	_	- (a)16	25
Southern Charcoal, No. 1 Mill 1	18	00(a)19	00
White and Mottled, different grades 1	4	50 a 15	00
	3	00 a 36	50
" other brands 2	22	00(a 24	10
Hanging Rock Cold Blast 5	28	90(a.30)	00
" Warm " 3	12	51623	50

cially reported by W. B. BELKNAP & Co., ails, Wire, Iron, Hardware, Carriage and agon Goods.

LOUISVILLE, KY., March 24, 1884. Bar iron is moving in somewhat better quantity, but there is no upward tendency

in price. Sheet iron-There is a good deal more inquiry, but prices still stay very low.— The manufacturers declare if a higher price does not prevail by May, that a de-

mand for lower wages must be made. Nails are in better supply, but the spring demand is beginning to manifest itself, and we look for reasonably brisk trade.

Wire—More interest than usual is centered on wire. The demand for fencing is enormous, and has led to an advance of both plain and barbed. Such goods as accompany the erection of fences are lively, such as post-hole diggers, stretchers, stanles, etc. ples, etc.

Chattanooga Iron Market.

Specially reported by S. B. Lows.

CHATTANOOGA, TENN., March 24, 1884. Spring has opened at last, fully three weeks later than usual. Farming of every kind is now being pushed forward with unusual activity. All the manufacturers of this city are running full, with satisfactory orders ahead. We give quotations same as last:

No. 1 Foundry	\$18	00	@19.00
No. 2 Foundry	17	00	@18 00
Gray Forge	15	00	@15 50
White and Mottled	-		@14 00
Car-Wheel Metal	24	00	@26 00
Ores, Brown and Red	1	50	@ 2 00
Furnace Coke	2	00	@ 2 50
Nails, car load lots	2	50	@
Bar Iron	1	85	@
Old Rails	22	00	@
Old Wheels	16	00	@17 00
Wrought Scrap, No. 1	16	00	@
14 No. 2	12	00	(a
Cotton Tie Clippings	10	00	@
Cast Scrap	10	00	@
Spikes (Railroad)	2	40	@
Splices	1	90	@

St. Louis Iron Market.

Specially reported by HOPPER & Co., Pig Iron and Iron Ore, No. 214 Pine Street.

St. Louis, March 24, 1884. Consumers report that orders in their line are coming in in larger volume than heretofore. This, of course, means an increase of consumption of pig iron. Pig iron is, however, in such liberal supply that we have, as yet, no change to report in prices. We quote:

HOT-BLAST CMARCOAL.			
	\$19	50(a)20	50
Southern	30	00(a)22	00
Ohio	24	00(a)26	00
COKE AND COAL.		-	
Missouri			
Southern	18	50(a) 19	50
Ohio	21	00(a.25	00
MILL IRONS.			
Red Short	18	50@19	50
Neutral	17	00(a 18	(1
CAR-WHEEL AND MALLEABLE !	RO	V.	
Missouri			
Southern			
	28	00@32	00
Iron, par.			
	Southern. Dhio. CONE AND COAL. Southern. Dhio. Missouri. CAR-WHEEL AND MALLEABLE I Missouri. Southern. Onto	Missouri. 419 Southern. 30 Dhio. 30 Southern. 34 Missouri. 19 Southern. 18 Southern. 18 Southern. 18 Southern. 18 Histouri. 18 Red Short. 18 Neutral. 17 CAR-WHEEL AND MALLEABLE PROVINCE 19 Southern. 25 Ohio. 26	Missouri

PAINTS, OILS, &c.

FAIRTS, UILS, QU.
PAINTS.
Black Lamp, coach painters
Iron Paint, ground in oil, bright red v ib 5%c Iron Paint, ground in oil, red v ib 5c
Iron Paint, ground in oil, purple 16 6c
Single Boiled
Mineral Paints
Red Lead, American
Red Venetian, (Bug.) dry
Rose Pink
Sienna, American, raw46
Sienna, raw
Umber, burnt, in oil
Umber, raw. in oil
Vermilion, English
White Lead, American, pure dry 6@6%c
Linseed Oil, raw 57tc Single Boiled 58tc Double 58tc Double 68th 68th 68th 68th 68th 68th 68th 68th
Yellow Ochre, Americanin bble., 14 @1 %c
Yellow Ochre. American. 11 bolls. 14 (21) \$\frac{1}{2}\$ (21) \$\f
Zinc White, American, No. 1, dry 5(36c) Zinc White, American, No. 1, in oil9c
Zinc White, French in oil
Zinc White, French in oil. Oil.s.
B. W. Elephant oil
Extra No. 1 Lard oil
Lubricating oils 15@ 25 Miners' oil
W. Pressed Fish oil
Steam-refined Cylinder oll
W. Pressed Fish oll. 5002 52
Benzine SUNDRIES. V gal. Salice
Turpentine V gal., 38 % c
Chalk, block
Frostings

Ealy's "Blue Book," just published, contains the names address, financial standing and paying qualities of over 150,000 dealers in Hardware, Iron, Metals, Machinery, Cut-lery, Guns, Stoves, Brass Goods, Ma-chinists, etc., in the United States and Canada.

This is a new list, having been carefully com-piled within the past three months by over 20,000 Special Local Correspondents and Mer-chants in the Trade, at an Expenditure of Many Thousands of Dollars. It is as complete and reli-able in every particular as any Reference Book able in every particular as any necessaria of the determining Credits can be made, and is much more convenient than a larger Agency book, as the "Blue Book" is Condensed, being confined exclusively to the above-mentioned lines of trade.

We have reliable and active local correspondents

in every city, town and village in the United States and Canada, and can furnish subscribers with late and full written reports regarding the character, habits, ability and financial worth of their customers.

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more valuable medium of communi-cation between its readers North and South, we will publish, FRB-E OF CHARGE, short advertisements, not exceeding 40 words, from those in the South who have mills, factories, manufacturing sites or water-power for sale, capital wanted for industrial enterprises, &c., &c.; while readers in other sections who desire to engage in manufactures at the South are also invited to use these columns, without cust, either in seeking information regarding the advantages and special claims of different localities, or for asking about good openings for men and money. This department is also free for Southern manufacturers who wish to advertise for mill managers, superintendents, engineers, &c.

In corresponding with any of these advertisers please mention the Baitimore Manufacturers' Record.

WATER POWER.—Fine water power, only partly used, near railroad, for lease. C. M. Jones, Stegalls P. O., Ga.

FLOUR MILL FOR SALE,—A fine Flour Mill in western North Carolina, well established; paying handsomely; splendid water power, only partly utilized, included. An excellent opening, Owner desires to retire. J. P. R., care MANUPACTURERS' RECORD.

WOOLEN MILL AND WATER POWER FOR SALE.—Well located in West Virginia, buildings and machinery new, latter of most improved makes. One of the finest water powers in the State. Address G. W. M., care MANUFAC-TUBERS' RECORD, Baltimore, Md.

WATER POWER AND MANUFACTURING SITES.—For sale, near Lynchburg, Va., building lots with unsurpassed water power and railroad frontage for manufacturing purposes, controlling the entire flow of the James River; in the centre of the iron and coal region. Address, Old Virginia Nail and Iron Works, Lynchburg, Va.

WATER-POWER.—A very fine water-power, seven miles from Baltimore by driving road and near a railway station, B. & O. R. R. The owner, living in Texas, will sell at a low price. H. W. Rogers, Baltimore.

COTTON MILL FOR SALE.—Built in 1879, in the centre of cotton region; 3,000 spindles; machinery nearly new and first class. Whole can be bought at great sacrifice, or mill will be put into stock company. Full particulars upon application to Bigsby & Edmonds, 22 Second street, Baltimore.

COTTON MILL FOR SALE.—A North Carolina cotton mill, with or without machinery. Well adapted and located for cotton or woolen manufacturing, hosiery, underclothing, rice milling, &c. A great bargain is offered. Satisfactory reasons for selling. Address Bigsby & Edmonds, Baltimore.

CAPITAL WANTED TO BUILD CHARCOAL IRON FURNACES at point that Charcoal Iron can be made and delivered in Pittsburg or other iron centres inside of sixteen dollars per ton. Address F. J. Chapman, Salem, Va.

WANTED.-Additional capital to put in opera-WANTED.—Additional capital to put in opera-tion a cotton factory. Company incorporated; 25-acre site purchased; brick for building made and on ground. On E. & W. Railroad of Alabama; in cotton producing section, with easy access to best manufacturers'c. al. Railroad shops and Cherokee fron Furnace and shops located at place. One of the best openings in the South. Address. J. E. Houseal, secretary Cotton Manufacturing Co., Cedartown. Gs.

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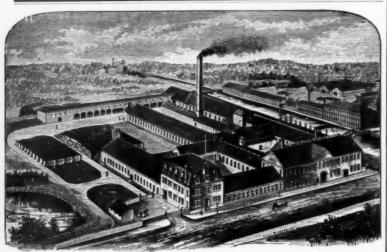
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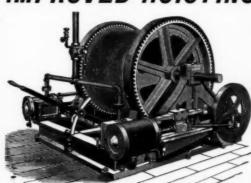
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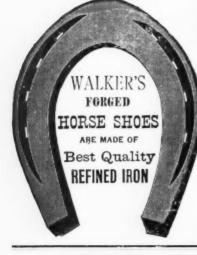
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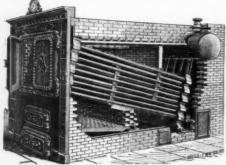


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Wright's 10% Armitage's Mouse Hole 9% Trenton 10% Wilkinson's 10%
AUOKRS AND BITS. dis 60 g Douglass Mfg. Co. dis 60 g from list of lives. Jan. 7, 1880. Cook's Douglass Mfg. '0. dis 40æ10 g Griswold dis 50æ10 g Patent Solid Head dis 25 g Russell Jennings' Auger. Dowel. Machine-
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Sewing Brass Ferrule. \$5.50 \Pigross—dis 40&10 \Rightarrow Patent Sewing, Short\$10 \Pigross—dis 40&10 \Rightarrow Patent Sewing, Long\$1.20 \Pidoz. net Patent Peg, Plain Top\$10 \Pigross—dis 40&10 \Rightarrow Patent Peg, Leather Top.\$12 \Pigross—dis 40&10 \Rightarr
Morse's Bit Sock D'fill L'Hommedieu's Ship Augers
Brad Sets, Stanley's Exc.' No. 3, \$7.80.dis 30&10 \$\frac{x}{2}\text{XEE}.\$ Lippincott or Mann's, Single Bit, 4\% to 5\% and under \(\frac{y}{2}\) doz. \(\frac{x}{2}\)7.25 net Single Bit, 4\% to 6 and over \(\frac{y}{2}\) doz. \(\frac{x}{2}\)7.25 net Single Bit, 4\% to 5\% and under \(\frac{y}{2}\) doz. \(\frac{x}{2}\)7.25 net Single Bit, 4\% to 5\% and under \(\frac{y}{2}\) doz. \(\frac{x}{2}\)7.20 net Double Bit, 4\% to 5\% and under \(\frac{y}{2}\) doz. \(\frac{x}{2}\)7.30 net Double Bit, 5\% to 6 and over \(\frac{y}{2}\) doz. \(\frac{x}{2}\)7.30 net Double Bit, 5\% to 6 and over \(\frac{y}{2}\) doz. \(\frac{x}{2}\)7.30 net Double Bit, 5\% to 6 and over \(\frac{y}{2}\)7.30 cz. \(\frac{x}{2}\)7.30 net Second quality \(\frac{x}{2}\)xes
Sheldon & Co., iron
BALANCES
Blacksmiths' Common
Section Section Francis Gis 20 g
Barbed, ¼ in. and larger
Cast Iron Barrel Shutter, &c
R. B. & W. Carriage (old list). dis 65 g Tire, American Screw Co.'s, Phila dis 75 g Tire, "Bay State". dis 65 g, new list Eagle Philadelphia Tire Bolt. 30 g Stove. dis 60 g Plow dis 50 de 10 g Machine. dis 70 g
BORING MACHINES. Upright. Angular. First quality, no Augers. \$5.50 \$5.75. dis 40 \$ 7.50net
Bolt Ends and Lag Screws
Amidon's
Shelf, plain

BALTIMORE MANUFA	10
Union Nut Co	K. S
Humason, Beckley & Co.** dis 60a10	Fito Hot Law Rub Swe Lus Silv Whi Asso Nau Exc
Fast Joint, Broad	Ame Wm Lea Bras Tor Gen N N No.
Loose Pin, Light	No. No. Star
Now Pixs. dis 55&5	Ohi Cro Nol Bra Adj P. S
Bradley's	Bla Bla Bre Bre Bre Wil
American CAN OF NEBS. American V gross \$7.50, dis 10 \$ New Idea. \$15 00 gross No. 4. French. V doz \$2.35, dis 20 \$ No. 5. Iron Handle. V gross \$7.50, dis 10 \$ Sardine Scissors V doz \$7.50, dis 10 \$ Sardine Scissors V doz \$7.00, dis 55 \$ Sprague, No. 1. \$2: No. 2, 225; No. 3, 2 50, dis 50 \$ Moz \$100, dis 55 \$ Moz \$ Moz \$100, dis 55 \$	Aut Doy Med Vic
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" 41, " 15 " 17 50 Central Fire—32, \$11.00; 38, \$13.50; 41, 15.00; 44, \$19. CARDS. Horse and Curry, new list, July, 1881dis 10 ≤ Cotton, new list, July, 1881dis 10 ≤ Wool, new list, July, 1881dis 10 ≤	Fra We And Mei
Horse and Curry, new list, July, 1881dis 10 g Cotton, new list, July, 1881dis 10 g Wool, new list, July, 1881dis 10 g CARPET STRETCHERS. CARPET STRETCHERS. CAST Steel, Polished	J. S. J. S. We But Mo
Bed. dis 47%±10 s Plate and Shallow Socket. dis 47%±10 s Deep Socket. dis 25±10 s Martin's Patent (Phoenix) dis 25 s CATTLE LEADERS. dis 60±10 s Humason, Beckley & Co.'s dis 60±10 s P. S. & W dis 25±10 s	H. Hell Nic Nev Uni
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Racking, new list, July 10, 1880. dis 50&10 \$ Globe, new list, July 10, 1880. dis 50&10 \$ Plain Bibbs, new list, July 10, 1880. dis 50&10 \$ Ale and Beer, new list, July 10, 1880. dis 50&10 \$ COFFER MILLS. dis 45 \$ 4 Corp.	Tin Fan Fan Barr Bes
Wilson'sdis 50 ≰ Logan & Strobridgedis 45 ≰ Enterprise Mfg. Codis 25 ≰	Rleg
Compasses dis 55 \$ Calipers dis 55 \$ Cook's Pencil dis 15 \$ Cook's Pencil dis 10 \$ Coopers Tools dis 15 690 \$ Bradley's dis 15 690 \$ Coopers Coopers dis 25 690 \$ Coope	May
Cast Steel	War Kip

1	ACTURERS' RECORD.	
* * *	CURLING HONS, &C	-
******	CURRY COMBS. Clusters CURRY COMBS. Clusters CURRY COMBS. Clusters Curran Combs Clusters Curran Combs Clusters Curran Combs Clusters Curran Combs Curran Combs	1
-	CUNTAIN PINS. Silvered Glass. net white Enamel net net	
MMMMMM	D00 COLLABS. dis 20 % Leather	
	DOOR SPHINGS. Torrey's Rod, regular size, \(\psi \) doz., \(\psi \). dis 40\(\psi \) 10 \(\psi \) Gem (Coil): No. 1, Large dapanned	
-	No. 4, ("shoo Fly") Screen door size, 1.50 No. 5, Screen door size 2.00 No. 6, Medium 2.75 No. 7, Large 4.00 Standard-10 doz \$1.30 dis 50 \$ 9 doz 1 75 dis 50 \$ 8 doz 2.50 dis 50 \$ dercules dis 40 \$ Ohio Tool Co dis 60&10 \$	-
** ***	Crossman's No. 1. dis 65&5 g Nobles Mrg. Co. dis 15 g Bradley's dis 35 g Adjustable Handle dis 30 g P. S. & W. dis 70&10 g Douglass dis 70&10 g	The second secon
MNNNNN	Blacksmiths Self-Feeding cach \$7 50, dis 30 g Breast, P. S. & W dis 20 g Breast, Wilson cach \$8.00, dis 20 g Breast, Millers Falls cach \$8.00, dis 25 g Breast, Millers Falls cach \$2.00, dis 25 g Breast, Bartholomew's cach \$2.50, dis 25 g Wilson's Drill Stocks dis 10 g Artowards Baring Tools cach \$2.50 dis 10 g Artowards Baring Tools cach \$2.50 dis 10 g	
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10 10 10 10 10 10 10 10 10 10 10 10 10 1	Door Lock	
-	Metallic Key, Leather Lined	
M MMM MMM	E. M. Boynton's	
XXXXXX tt	Knox, 4½-inch Rolls\$3.50 each { dis 35 g Knox, 6-inch Rolls\$4.00 each { dis 35 g Ragle, 3½-inch Roll\$2.15, dis 35 g Ragle, 5½-inch Roll\$2.85, dis 35 g Crown, 4½-in., \$3.59; 6, \$4.00; 8, \$6.50 eachdis 35 g Crown Jewel6-in., \$3.40 eachdis 35 g American, 5-in., \$3; 6-in., \$3.40; 7-in., \$4.50 eachdis 35 g eachdis 35 g	
*	American, 0-in., \$5.40; i-in., \$5.50; i-in., \$5.50; cach., and Domestic Fluter.	
****	Remington	
M MEN	Marking, Stanley's	
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***	Pamily, L. F. & C.'s "Handy"dis 30 s URLYHDSTONE VIXTURES. Bargents Patentdis 70&10 s	
	Reading Hardware Co	-
	7 S . 4.45 Maydole's	

HANDLES.—Door or Thumb Latches.	
Per doz. \$0.80 1.00 1.18 1.35 1.150	s ei 10
Handles.	MMMMMM
Lippincott Cross-Cut Saw 22c per pa Hammer and Hatchet	11 8 50 .00
Patent Auger, Douglass'. * set \$1.35 n Patent Auger, Swan's. * set 1.00 n HAMNOCK CHAICS. White Mountain, per dog. \$286.	et
Finished in red, per doz. 882. HANGERS. Barn Door, old patterns	00
Barn Door, New England die 60&10 Climax (Anti-Friction) die 50	3 8 0 8
Claw, Nos. 123 7 doz 7.75 8.50 9 Lathing, Nos. 123 7 doz 7.50 8.00 8 Hammoud's, new listdia 4	.00
Blood'sdie 3 Hunt'sdis 3 Russel's. jow list	0 %
"Lightning"V doz. \$20.00 net i	5 %
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Hubbard Bakewell & Co	0 9 0 9 0 9 0 9 0 9 0 9 0 9 0 9 0 9 0 9
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HORSE POKES. \$8 V de Akron. \$3 V de	OR.
Carriage (Jap'd 80c V gross)dis 6041	0 .
Hemacite Door Knobshew list, dis 35 & Door Mineral Door Por. Jap'd Door Por. Plated.	ike
Hemacite Door Knobs	10 5 5 10
Melting & Skim'ng, Monroe's Pat. V doz \$4 dis 4 Melting, C & Cdis 30&10	0 %
Buckeye, Easy and Excelsior, new listdia 30 Lines. Lines Fish) 9
Wire Clothes, Galvanized, 100 feet ♥ doz. \$3.	.00
Cabinet, Eagle	1,
Branford Norwich Norwich P. & F. Corbin P. & F. Corbin Paticos as revise for cash. Mailory, Wheeler & Co. Padlocks—Russell & Erwin Mailory, Wheeler & Co. Padlocks—Russell & Erwin Mailory, Wheeler & Co. Sorwich Lock Manf. Co. Wm. Wilcox & Co	ed
Mallory, Wheeler & Co	sh te
Yale Lock Manf. Co.'s "Standard" dis 40 Romer's dis 2000 Conestogs dis 70 Scandinavian "Norwich" dis 50	N P N N
Penfield Block Co., Apple, Hickory and Lignumvitsedis 30	*
Dixon's (P. S. & W.) Nos. 1 2 3 4. V doz \$14 \$17 \$19 \$30-dis 25 Perry's, Nos. 1 2 3 4 4gr'd 5gr'd	*
Penfeld Block Co. Apple, Hickory and Lignumvite	×
W dos. \$27 35 45-dis 50&1042 Kieser's No. 55	MMM
Kieser's No. 89	* * *

NOLASSES GATES. Stebbins Patterns	10 %
Stebbins Patterns	10 x 10 x 10 x 20 x 10 x
Weed's 1 2 3 4 1	doz 10 %
Square Nuts	
Zinc and Tin	0 % 0 %
PLAITING MACHINES.	
Astor Flatting Machine each \$15, dis 2 Crown Platting Machines dis 2 6 in., \$6; 10 in. \$8 each. Flanks and Flank IRONS. Bench, First Quality dis 2 Bench, Second Quality dis 2 Molding dis 1 Balley's (Stanley R. & L. Co.) new list, Jan.	0 × 1 5 × 5 ×
1879	0 %
The Stanley (S. R. & L. Co.) new list, January 1879	E X
Button's Patent. die 83% Hall's Pat. Compound Lever Cutting Nippers. No. 2, 5 in. \$13.50; No. 4, 7 in., \$21 \(\forall \) doz. dis 20 Gas Pilers die 50	"
Disston"s dis 4d. Stanley R. & L. Co. 's Pat. Adjustable. dis 66&10 Stanley R. & L. Co. 's Non-Adjustabl. dis 66&10 Stanley R. & L. Co. 's Non-Adjustabl. dis 65&10 Chapin's Patent Adjustable dis 65&10 Standard Rule Co. 's Non-Adjustable dis 65&10 Standard Rule Co. 's Non-Adjustable dis 65&10 Pocket Levels dis 66&10	-
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B. D. for N. E. Hangers—Small Med. Large. Per 100 feet	1
RAZOR STROPS.	* .
Genuine Emerson	
Iron and Tinned, now list, Dec. 10, 1881dis 45 In bulk, new list, Dec. 10, 1881dis 45 Copper Rivets and Burrs	* 1
Stair, Black Walnut	i l
Chapin's	A P P P P P P P P P P P P P P P P P P P
Self-Heating, Charcoal. V doz. \$9.00 ne Mrs. Pott's Irons. dis \$5; Enterprise Star Irons, new list, July 20; \$3.0is 35; Comb d Fluter and Sad Iron. V doz. \$15.00, dis 15;	7 883
Baeder & Adamson's Flint, 00@1/4 \$4.50 V r'm. Baeder & Adamson's Flint, 2, 2/4 & 3, 5.00 V r'm. Beader & Adamson's Flint, 1, 2/4 & 3, 5.00 V r'm. Beader & Adamson's Flint, 1, 2 & 3, 73 V r'm. Beader & Adamson's Emery V r'm \$6.50@11.50 Bartle's Sand, Fint and Emery Paper 30&5 g	A G R
SASH CORD. *Common	R K L H
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malid Pres in 500-% lots and over W to 1 Vc net	Ai
### Miles	Be St. Iv De
Boynton's Lightning Cross Cuts, new list, dis 40 × Boynton's Circular and Mill	W Ho Br W Ro C.
Disston's Circular dis 40 x	W Me
Hubbard, Bakewell & Co., Mill Saws. dis 40&5 5 Peace Circular and Mill	Ti Ti Ge
White	W
Stillman's Genuine, V doz. \$3.50 and \$5.50, dis 10 \$ Stillman's Imitation V doz. \$3.25, dis 30&10 \$ Common Leves	Ste Iro Nie Tr
Stillman's Genuine, \(\Psi \) dox \$3.50 and \$5.50, dis 10 \(\psi \) Stillman's Imitation \(\Psi \) dox \$3.25, dis 90&10 \(\psi \) Common Lever \(\Psi \) dox \$2.00, dis 90&10 \(\psi \) Common Lever \(\No \) 0, \$8.00, \(\psi \) 0, \(\psi \) 16 is 15 \(\psi \) Hammer, Hotchkiss \(\No \) 0, \$8.50, dis 10 \(\psi \) Aiken's Genuine \(\psi \) 13.00, dis 50&10 \(\psi \) Aiken's Imitation \(\psi \) 7.00, dis 50 \(\psi \) 10 \(\psi \) 10 is 20 \(\psi \) Morrill's \(\No \) 1, \$15; \(\No \) 5, \$25, dis 35&10 \(\psi \) Morrill's \(\No \) 1, \$15; \(\No \) 5, \$25, dis 35&10 \(\psi \)	Sol
Morrill's	Bei
Match, Tea, No. 161 v doz. \$15.00, dis 37% &10 % Falon Platform, Keystone	We

Chicago Scale Co. Special dis Fairbanks* dis 95 Forsyth Scale Co. dis 405 Forsyth Scale Co. dis 405 Forsyth Scale Co. dis 405 Forsyth Scale Co. dis 905 Chalillon's Groces* dis 905 Chalillon's Groces* dis 905 Family Universal dis 905 Scale Beams, Scarper(S. R. & L. Co.) \$45 Scarper Co. dis 905 Scarper Co. dis 905 Scale Co. dis 905
Window Corner Irons, No. 8, doz. s ts, \$2
No. 20. \$2.75 \$3.25 \ X \ No. 21
SHEARS AND SCISSORS. American (Cast) Iron
SHOVELS AND SPADES. Ames, New List, July 1, 1881
Accide and Pol r
Inned Iron Table and Tea
and Stone

B	WIRE.	
í	Brass and Copper, list of Jan. 17, 1884	N/C
١	Bright and Annealed Nos. 0018, die 50 &10	114
ï	Bright and Annealed Nos. 19696, dis 60 41	Dag.
į	Bright and Annealed Nos 27636 die 7	Dec.
	Coppered Nos 06018 die 50	100
ì	WIRE WIRE State State	2
	Tinned Nos 0 to 18	2
	Tinned Broom Wire Nos 19 to 96	*
	Annealed Fence Nos 840	*
	Appealed Grane Nos 10 to 14	7
	Pence Staples (lalvanised was access	76
	Japanned Bark Fonce	C
	Calvantand Barbad Park	C
	Buck There Columniand	C
	Dictary Wilson Galvanized	C
ı	ricture wiredis 40	%
1	Clothes Line wire, Galvanized\$3.00 W do	Z
1	Picture Wire	15
ı	WRENCHES.	
ı	American Adjustabledis 45	8
ı	Baxter's Adjustable "S," list Jan., 1880die 20&5	8
ı	Baxter's Diagonaldis 2025	8
1	Coes' Genuine dis 50&10	4
1	Coes' "Mechanics"dis 50&10&10	2
I	Coes' Pattern, Malleable die 75	21
ı	Coes' Pattern, Wrought. dis 606010	2
ı	Girard Standard. die 50/610	2
ı	Girard Agl die 60#10	21
I	Alwaya Ready	2
J	WRENCHES	70
ı	WRINGERS. Per doz	
ł	Universal, XX, No. 2%	0
ı	Universal, XX, No. 2 42 0	0
l	Universal, XX. No. 1% 51.0	0
ı	Universal, XX, No 1	0 1
I	Universal, XX, No. 8each 10.71	5
l	Universal, XX. No. 12 each 20.2	5
I	Universal, XX, No 18each 22 7	5
ĺ	Universal, XX. No. 22 each 30.2	5
ı	Peerless, no Cogs, No. 1	0
ı	Peerless, with Cogs, No. 2%	Ď
ı	Peerless, with Cogs, No. 2 48.00	il
ı	WRINGERS Per doz	1
ı	Tin ('ase	
ı	Storm Glasses \$3.25 V doz	1
l	Storm Glasses	Ί.
ı	New List Nept 1 1899	- 1
ı	Tinned Swedes Tacks die 20 die	- 1
	Tinned American Tacks di. 30 g	- 1
	Sweden Tucks all kinds die 20 z Z	-1
	American Cut Tacks die 30 d	1
	Conner Tacks and Nails dis 90 #	1
	Hungarian Naila	1
	Gimp and Lace Tacks	1
	Gimp and Lace Tacks Tinned dis 20 st	-1
	Finishing Nalls	1
	Trunk and Clout Walls	1
	Common and Potent Bands	
	Backet Natio	
	Rench Tacks	
	Lorthord Carnet Tacks	-
,	Nigar Boy Nails	
1	Chair Nails	1
1	New List. Nept. 1, 1882, Tinned Swedes Tacks. dis 30 x Tinned American Tacks. dis 30 x Swedes Tacks. dis 30 x Swedes Tacks. dis 30 x d	1
	Double-bointen lacks	1
4	TAP BORERS.	
7	Common and Ringdis 20 \$\footnote{s}\$ [ves' Tap Borersdis 15\delta 10 \$\footnote{s}\$ [Strerprise Mfg. Codis 25 \$\footnote{s}\$	1
1	Part and Borers	1
į	suterprise Mig. Co	1
	TOBACCO CUTTERS.	1
]	Snterprise Mfg. Co. (Champion)dis 🕸 🐒	١.
1	Wood Bottom V doz \$12.00, dis 40&5 \$	Ιi
1	TOSACCO CUTTERS.	1
١	Wilson'sdis 35 ≰	1.
	TOE CALES.	1 4
ş	Vinsted₩ lb 9c. dis 5 %	1
		1
6	TRAPS	1
¢	lame Onelda Pattorn	1
-	lame, Odelda Patterndis 60&10 \$	1
8	four Wood Chaban dis 40&10 \$	
į	touse, wood, Choker v doz holes, 16c	1
ļ	nouse, Round Wire V doz \$1.50, dis 10 \$	1 -
å	touse Cage, Wire V doz \$2.50, dis 10 \$	1
å	touse, Catch-em-alive V doz \$2.50, dis 10 \$	1
Ė	at, "Decoy" V doz \$10.00, dis 10 \$	S
Ĺ	Pelusion Mouse, per doz\$1.50	10
_		1
2		I

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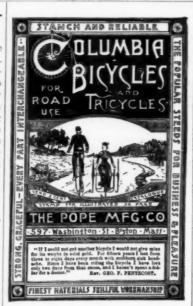
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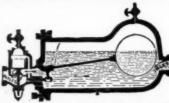
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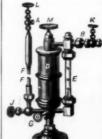
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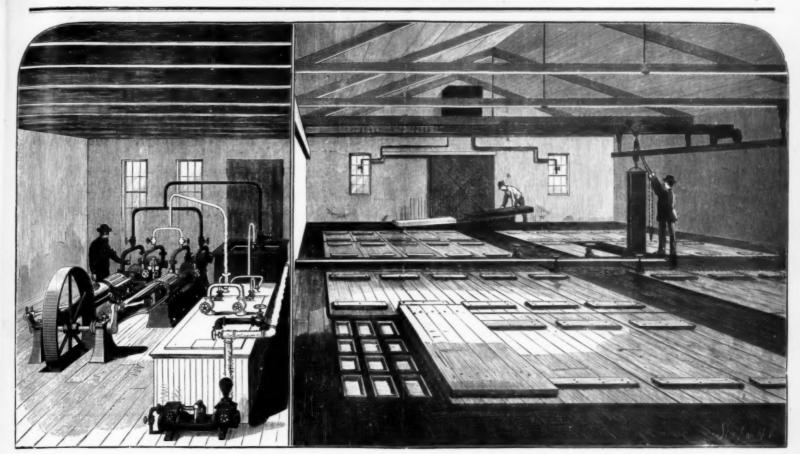


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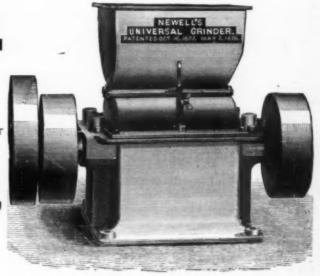
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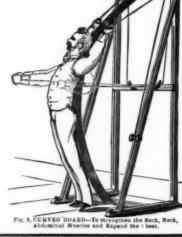
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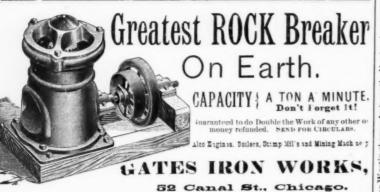
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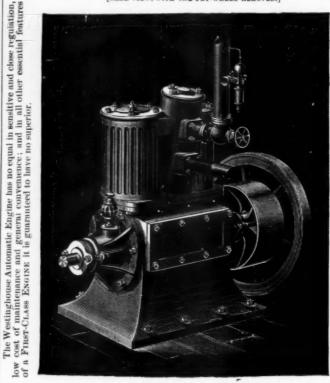
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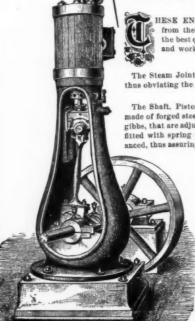
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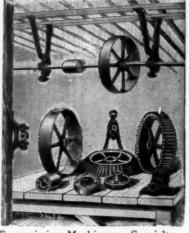
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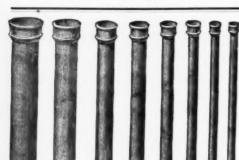
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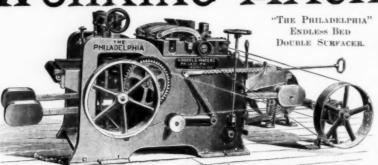
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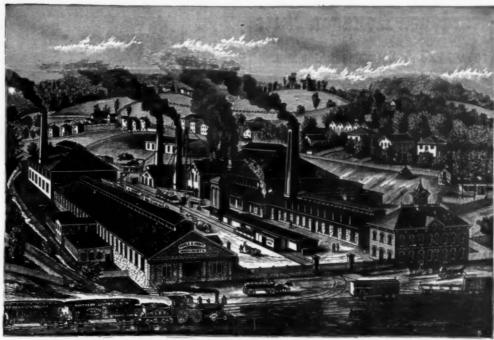
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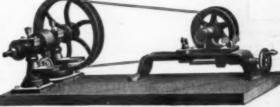


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